



NJPDES BIOMONITORING REPORT FORM-ACUTE TOXICITY



Permit Number #: Permit Equivalent

DSN: 001

Facility name:

Kin-Buc Landfill

Facility address:

383 Meadow Road

Edison, NJ

Facility contact person:

Glen Grieb

Phone number:

732.561.7600

Acute toxicity laboratory:

QC Inc.

1205 Industrial Highway Southampton, PA 18966

NJ/NELAC certification number:

77166

Test Specifications:

Effluent Type: Final

Test Type: Modified static renewal (24-hour)

Test Results:

Test Start: 01/20/03

Test End: 01/24/03

Test endpoint: LC50

EC50 (%effluent): >100%

95% Confidence Interval: NA

Highest percent mortality in any test concentration: 15.0%

Test organism:

Mysid Shrimp common name

Mysidopsis bahia scientific name

Quality Control Summary

Control Mortality (%): 0.0

Temperature maintained within 20 +/- 1 °C? Yes

Dissolved Oxygen Levels always greater than 40% saturation? Yes

Two or more concentrations exhibit a trend deviation? No

Certification:

Accuracy of report certified by:

Robert A. Martino Laboratory Director 562190

Date



Test Organism Data:

Test organism source: Aquatox, Inc.

Test Organism Acclimation:

Is the culture water and test dilution water the same, and are the culture water temperature and dilution water temperature identical? No

Mysid, Daphnids and Cladocerans:

Initial number of organisms: 150

Test organism age at start of test (days): 4 days

Culture water source: 40 Fathoms
Culture water salinity: 25 ppt
Culture water temperature: 25°C
Dilution water source: Manasquan Inlet.
Dilution water salinity upon collection: 28.2
Dilution water temperature upon collection: NA

Number of mortalities: < 5%

Test Design:

Number of effluent test concentrations: 5 Number of replicates/test concentration: 4 Number of test organisms/replicate: 5

Volume of liquid in test chambers (liters): 0.20

Flow-through bioassay exchange rate (cycles/day): NA

Effluent sampling:

Plant sampling location: Final effluent just before weir.

Effluent type: Final. Discharge: Continuous

Effluent sample type: 24 hour composite

	•				Init	ial Parame	Use in Toxicity		Holding		
Eff	uent Sam	ple Collecti	on		lı lı	n Laborato	Tests		Time		
Beginning Ending				temp		d.o	Cond	Chlorine			(first use)
date	time	date	time	°C	рНi	mg/L	umhos	ppm	date(s)	time(s)	hours
1/19/03	10:00	1/20/03	9:00	1.30	7.19	9.3	416	< 0.1	1/20/03	13:30	4:30
1/20/03	10:00	1/21/03	9:00	1.60	7.01	12.7	957	< 0.1	1/21/03	13:45	4:45
1/21/03	10:00	1/22/03	9:00	1.40	7.09	12.1	965	< 0.1	1/22/03	13:50	4:50
1/22/03	10:00	1/23/03	9:00	1.20	6.71	12.0	985	< 0.1	1/23/03	14:15	5:15

2

Testing location: QC Laboratories



Effluent Sample Adjustments

Were any salinity adjustments made? Yes If yes, specify the source of sea salts, brine or water used: Dry 40 Fathoms (biotechnical grade)

Were any pH adjustments made? Yes.

--pH / Chlorine Adjustment--

Sample Used	Volume Adjusted	pH prior to Salting	Salinity ppt	pH after Salting	ml's 0.2N HCl Used	pH after Adjustment	TRC sample	Amt. STS added (mgs)	TRC after Addition
					-				
	T								

Was the effluent sample filtered in any manner? No If yes, please specify the mesh size:

Were any adjustments to the level of chlorine made? No.

If yes, specify the dechlorination agent used and the amount of reagent used: NA

Specify the chlorine levels prior to and after addition of the reagent: See data above.

Was an additional control included in the test containing the dechlorination agent? Yes, added to Control B.

Dilution Water:

Effluent receiving water: Raritan River. Dilution water source: Manasquan Inlet.

If a substitute dilution water was used, had its use been approved by the NJDEP in the

acute methodology questionnaire?

Collection location: By Coast Guard station, Manasquan Inlet.

Collection date(s): 01/17/03

LC50/EC50 (% effluent)

0 hour 24 hour 48 hour 72 hour 96 hour >100% >100% >100% >100% >100%

Calculation method: No measurable acute toxicity.

Is the calculated LC50/EC50 valid according to the specifications of the method used? Yes

Miscellaneous:

Were any exposure chambers aerated during the test? No

If yes, specify concentrations and duration, including the lowest percent saturation reached prior to aeration and at what time:

Were the test organisms observed for appearance and behavior at least daily? Yes



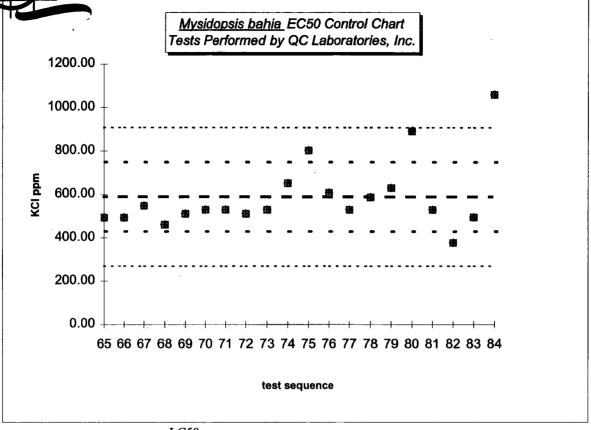
Additional Water Chemistry Parameters

	Sample (Collection		D	ilution Wat	er	100% Effluent			
Beginning Ending				Alkalinity	Alkalinity Hardness Ammonia			Hardness	Ammonia	
date	time	date	time	mg/L	mg/L	ppm	mg/L	mg/L	ppm	
1/19/03	10:00	1/20/03	10:00	151.0	NA	NA	147.0	NA	NA	
1/20/03	10:00	1/21/03	10:00				143.0	NA	NA	
1/21/03	10:00	1/22/03	10:00				153.0	NA	NA	
1/22/03	10:00	1/23/03	10:00				166.0	NA	NA	

Temperature Log

Additional Comments:





		LC50					
Date	test number	ppm	MEAN	UCL 2SD	LCL 2SD	UCL 1SD	LCL 1SD
1/3/02	65	494.82	Þ				
1/3/02	66	494.82					
1/14/02	67	549.03					
2/1/02	68	462.00					
2/12/02	69	512.27					
2/25/02	70	530.33		•			
3/19/02	71	530.33					
4/22/02	72	512.27					
5/13/02	73	530.33					
6/3/02	74	652.90					
6/25/02	75	803.83					
7/16/02	76	609.19					
8/13/02	77	530.33					
8/28/02	78	588.44					
9/24/02	79	630.67					
10/7/02	80	891.91					
10/22/02	81	530.33	•				
12/4/02	82	378.93					
1/13/03	83	495.71					
1/21/03	84	1060.66	589.46	908.62	270.29	749.04	429.87
	CV	27.1%					



Acute Test Information



Study Number:	81721	-	Client: Kin-buc	
Protocol: DJ	-		Water Bath Incubator: 2	
Date Initiated: 1-2	O- G		Time Initiated: 1330	
Date Terminated:	1243	•	Time Terminated: 1405	
Test Duration:	24-hour 48-hour 72-hour	96-hour Other:		
Test Type:	6-hour static renewal	24-hour static renew	al static-no renewal	
	flow-through/dilutor used:		other:	
Test Material:	Effuent Receiving	Water	Non Contact/Contact Cooling Water	
	Pure Compound:		SRT Solution / Lot #:	
	Other:			
Dilution Water:	Receiving Waters:		Synthetic / Lot #:	
Salt Added to Effluent:	N N	Test Salir	nity: 28ppt	
Brand of Artificial Salts	Used: 40-Fathoms	Other:	·	
Test Volume(ml's):	15 25 50	100 200	250 500 1000 other.	•
Number of Replicates:	2 4 5 10 other:	Number o	of Organisms / Replicate: 5 10 oth	er:
Test Temperature (°C):	: 20 22	25 other:		
Test Species:	Pimephales promelas	Mysidsopsis bahia	Cyprinodon variegatus	
	Daphnia pulex	Ceriodaphnia dubia	other:	
Source: In house	Commerci	al Supplier: AQC	IATOX	
Lot Number	r: 1144AQOII603 Age at tes	t initiation: 4da	My Age range: 24m/S	
Original Number of Org	U -		•	
Acclimation Initiated:	7103 Time: 1000	п°с: 20.3	pHi 7,96 D.O.i 9.6	sali 24.1pp
Acclimation Terminated	d: 10/03 Time: 1300	π°C: 20.1	pHi 7.96 D.O.I 9.6 pHi 7.84 D.O.I 7.4	Sal.f 22.2ppt
Time Organisms remai	ined in 100% Dilution Water:		% Dead:	
Time Organisms Added	d to Test Chambers:			
Comments				
-	.///	—		
-	Mille			
-	VERIFICATION OF LABORATOR	RY DIRECTOR	nam	2/27/03
			וֹיִאַט	-



MORTALITY/BEHAVIORAL OBSERVATIONS INVERTEBRATE TESTS

Study Number:

1981721

			observation time from T=0 hours $\frac{96}{10}$ hours								
	CONC		ours			48 alive			hours		
REP	(Oh)	alive			alive obs		obs	alive obs		alive obs	
1A		5	ν	_5_	ν	5	N	5		5	N
1B	 		 		 1	+ +	 	 	 		1
1C				-+	╂		1		 		
1D 2A	1/2 ////		├ - 		╂-╂	 	 		 		
2A 2B	40 furnas		 		 	 	╂┈┼	 -	 		
2C			 		 	1 -	 		 	 	
2D			1-11						 		
3A	20	 									
3B		·									
3C											,
3D											
4A	40 -										
4B											\sqcup
4C											
4D									1		
5A	60	I						 			
5B		 			 	 	 	 	 	 	
5C 5D		 	 		 	+	 	 \ 		1	
6A	80	 	 		+	+	+ + -	4	ID.	4	0
6B	(a)	 				1 1	1 1/	7	13	1	10
6C		 			1	14	ĬĎ	4	10	4	(1)
6D		 		 	 	1 %		5	Ü	<u> </u>	l D
7A	100					L	10	4	10	11	10
7B						5		5	N	5	10
7C		ΠZ_{-}				ь́	10	4	10	4	10
7D		\cup		\bigcirc		1 5	N	5	2	Ч	ID
	Signature			n		M	/	INU		me	
	Date 1-20.05			1-2	الدفي	110		1-23.00		1-24-03	
	Renewal Time 335				45	13	350_	<u> </u>	415	140	5

Obs	ervations:		
	D Dead: no appendage movement	C Cannibalized	
	F Fed	l: Immobile	
Con	nments:		
			1/27/03
	VEDICION OF	LAROPATORYTHRECTOR	' DATE



Physical/Chemical Parameters Sheet

Study Number

1981721

incubator:

Number:		-1							incubato	or:	
T=0/24 Hrs	temp	do	pН	Sal	con (X00	T=24/48 Hrs	temp	do	рН	Sal	con (74.30)
_ 0 ₀	ဇင	mg/l	units	ppt	u mhos-	Q _o	°c	mg/i	units	ppt	umhos
control	initial 19, 1	7,7	7.83	28.2	436	control initia	al 17.3	7.6	7.87	28.1	437
	final 20.1	7.5	296	28.6	453	fina	al 19.6	6.4	7.83	29.6	456
40	initial 19,2	9.8	8.31	27.1	421	40 initio	al 19, T	10.2	8.22	264	411
Harmons	final 20.0	8.1	8.16	280	447	Harris fine	117.6	30	8.07	286	442
U	initial 19.2	8.3	8.20	279	434	U initia	19, C	8.2	8.14	28.3	427
20	final 19.9	7.6	808	28.3	465	and fine	10,6	6.4	7.88	30.7	472
	initial 19.2	8,4	839	28.5	440	initia	1 A.O	8.3	830	28.1	435
40	final D	7.9	829	29.5	473	140 fina	11/16	6.6	7.98	30.9	474
	initial 19.4	8.7	8.48	28.6	441	initia	19.0	9.0	8.47	28.0	434
60	final QS	8.3	8.16	30.1	474	(a) fina	19.6	63	801	30.7	470
	initial 19,	9.0	8.71	28:7	442	initia	a 19.0	9.5	8.60	280	433
80	final 95	82	8.24	29.5	470	SCO fina	19.6	6.4	814	304	3467
	initial 20.1	9.4	1.73	28.6	44)	initia	19.0	10.0	8.71	28.0	434
100	final IQS	8.1	8.31	29.4	467	100 fina	al 19.6	6.3	8.23	30.4	467
	initial		•			initia	al				
	final					fina	al				
Initials 11	- W	f comments	,			Initials TW	1 KW 1	comments	,		
Date 1-2	0-03 1-21-0	3 ()	18 CX	118		Date 1-ZI	1/22/13	n	D18/	Avaz	,
Time 13	48 1415	7	·ola	010		Time 1415	1600			9021	
						,			·		
T=48/72 Hr	s temp	do	pН	Sal	con (*100)		temp	do	рH	Sal	con (XVOD)
0/0	°C	mg/1	units	ppt	umhos	020	℃	mg/l	units	ppt	u mhos
1	initial 19, C	76	791	28,7	439	nitia (nitia	al 19,0	78	7.91	28.3	438 438
	final 19.3	6.9	7.65	35,2	464	U fina	al 12,4	6.8	779	23,9	447

T=48/72.F	Irs	temp	do	рН	Sal	con 🗸	
S		°C	mg/f	units	ppt	u mhos	
A	initial	19,0	76	791	28,4	439	
)	final	19.3	6.9	7.65	30,2	464	
40	initial	19:0	9.8	8.10	28.Q	433	
hadron	دح final	19.4	Ť	7.94	29,6	456	
2	initial	19,0	84	8.16	38.8	445	
20	final	19.3	6.8	7.88	30.2	464	
11.0	initial	19.1	8,4	8.35	289	446	
90	final	19.2	6.8	7.89	30.2	464	
1 -	initial	P.I	8.7	8.45	29.0	448	
(4)	final	19.1	7.0	7.99	30.2	464	
Λ.	initial	al	9.0	8.58	29.1	450	
100	final	191	6.8	8.03	30.3	465	
44	initial	10.2	9.3	364	294	453	
100	final	19.1	7.0	8.18	30.3	465	
	initial						
	final						
Initials	EW!	me"	comments	4			
Date V	સ્ટ્રાપુટ	1/23/03	RUM	18/0	(ma) i		
Time /	6101	1440	40	10/6	NOZI		

				•			-
Om		ဇင	mg/l	units	ppt	u mhos	201-
1	initial	19.0	7.8	7.91	28.3	45	/28
	final	A.4	6.8	279	23,9	44	7
40	initial	9.1	95	804	27.2	421	
Withous	final	19.4	7.0	795	28.6	442	
~ ^	initial	19.2	8.4	503	26	441	
30	final	19.4	7.0	7.98	30.5	468	
110	initial	19.2	8.4	820	28.7	442	
40	final	14.4	7.0	7.95	30.9	474	
_	initial	19.4	8.5	8.39	28.9	444	
60	final	19,4	7.0	8.01	3 0-3	466	,
^	initiat	19.6	8.8	8.57	22.6	441	
80	final	10.4	6.9	808	308	473	
- 7	initial	19.7	8.9	8.63	28.8	443	
100	final	19.4	10.9	8.15	30.7	472	
	initial						
	final						
Initials 1.1	W	m	comments		1,	•	
Date 1-2	<u>ን</u> ሪዓ	1-240	Con	2/ [0	907.1		
Time 14	143	1427	, 40	7/10	4° 01		

VERIFICATION OF LABORATORY DIRECTOR

1/27/03



AQUATIC TOXICOLOGY LABORATORY CHAIN OF CUSTODY

Study Number:	1981	721		Facility Na	me or Code	e: K	in-be	م د				
Test Type:	M Acute	_	□ Chronic		□Sediment		□Pure Com	pound	□Other			
Sample Number*:	DE 001	□D002	□D003	□E001	□E002	□E003	□E004	□E005	□E006			
If whole sample is co (note: if split, assign A,	-	-	· ·	-	•	use:		Splits to be	homogeni	ized:		
Description of Samp	le:	Diffluent Upitution V	 Vaters		act Cooling \ iter/pump an		□Contact C □Other:	ooling Water				
Location of Sampling	g:	□Final (pos □Receiving	it treatment) Waters	□Final-Prechlorinated				□Final-Chlo □Other:	rinated		□Outfall O	utlet
Sample type:	Sample type: □Grab □Time Proportio				□24 Hour C □Flow Prop	=			our Composit ed/Iced in Fid			
Sample Collection: Date/Time Initiated:			iated:				Date/Time Ter	minated:				
	oler chain-o	f-custody se	eal intact a	t sample ret	rieval:	□Yes	□No			_		
Volume of Sample:Liters / Gallons Container Type: □FDA Grade Plastic □Glass □Stainless Steel												
Storage and Transport Conditions: □Iced/Cooler Temp. (°C) upon collection: □Field Collected/Transported to Lab □Overnight Courier												
Relinquished by Sampler:	······································		Date	Time	Received By:				Date	Time		
Relinquished by:			Date	Time	me Received By: Date Time				Time		•	
Relinquished by:			Date	Time	Received By:				Date	Time		
Condition of Sample	e upon Rece	ipt:	☐Contained	i i	□Accepted		□Comprom	lsed / Explain	n below	□Rejected /	Explain bel	ow
Sample Refrigerated	l (date/time/	sig.):			Sample De	ata and Use						
,	Initial Sample D	ata		1		n Toxicity Test	,	Sample		Sample To	erminated	
temp (°C) pH	D.O. (mg/L)	Cond.	TRC (ppm)	Dat	e(s)	Tim	e(s)	Split ID	Da	ate	Ť	ime
R.7 791	177	4300	101									
18. 1 1.71	/ /	43,530	KO.1									
				:		·						
Sample Manipulation	ns:	□Salted	·			<u> </u>	<u></u>			_		
		□Aerated/□	Due to:	□Supersatu	ıratlon	□ D.O. < 40	% of Sat. / fin	nal D.O. after	aeration:	mg/L		
•		□Dechlorin	ated		mgs anhydr	ous sodium th	niosulfate use	ed per liter (sh	now math on	below)		*



AQUATIC TOXICOLOGY LABORATORY CHAIN OF CUSTODY

Study Number:	1981	721		Facility Na	me or Code	e: K	in-b	ر				
Test Type:	DAedle		□ Chronic		□Sediment		□Pure Cor	npound	Other			
Sample Number*:	□ D001	□D002	□D003	□E001	□E002	□E003	□E004	□E005	□E006			
If whole sample is cor (note: If split, assign A, B,		•	•		•	use:		Splits to be	e homogen	ized:		
Description of Sample	э :	DEffluent Dilution V	Vaters		tact Cooling V ater/pump an		□Contact (□Other:	Cooling Water	r			
Location of Sampling:		Final (pos	t treatment) Waters	☐Final-Prechlorinated				□Final-Chic	orinated		□Outfall Outlet	
Sample type:	portional	· · · · · · · · · · · · · · · · · · ·					□Hour Composite □Refrigerated/Iced in Field					
Sample Collection:	./		53	<i>්රව</i> ා f-custody s	eal intact al	sample re	Date/Time To	minated:	OPN)			
Volume of Sample: 3/2 Liters Gallons Container Type: GEDA Grade Plastic Galass GStainless Steel												
Storage and Transport Conditions: Temp. (°C) upon collection: 1/3 Field Collected/Transported to Lab Overnight Courier												
Religious beddy Sampler:	The same of the sa		Date //20/53	Time /205	Received By:	n t	alest	 	Date 1-203	Time S()	·	
Relinquished by:	CANON .	,	Daye	Time	Received By:				Date	Time	·	
Relinquished by:			Date	Time	Received By:				Date	Time	N,	
Condition of Sample	upon Rece	ipt:	Containe	i /	Accepted		□Compron	nised / Explai	n below	□Rejected	Explain below	
Sample Refrigerated ((date/time/	sig.):		·								
ln ln	itial Sample D	ata	 	Γ	Sample Da	Toxicity Test		Compte		Comple T	erminated	
temp (°C) pH	D.O. (mg/L)	Cond.	TRC (ppm)	Da [.]	te(s)	=	ne(s)	Sample Split ID		ate	Time	
1.3 7.19	9.3	415	<u> </u>	1-20-		133		dpii id	1210		800	
(0) 101	(* /		0.0	1								
Sample Manipulations	3;	/13Salted	•			<u> </u>		<u> </u>	<u> </u>			
□Aerated/Due to:				□Supersate	uration	□ D.O. < 40	0% of Sat. / fi	nal D.O. after	aeration:	mg/L		
	mgs anhydrous sodium thiosulfate used per liter (show math on below)											



AQUATIC TOXICOLOGY LABORATORY CHAIN OF CUSTODY

Study Number: L99	31721		Facility Na	ime or Code	, <i>K</i>	in t	DU L	-			
Test Type:	t Type: BACute Chronic		□ Sediment			□Pure Co	mpound	□Other			
Sample Number*:	001 © D002	□D003	□E001. ···	₩E002	□E003	□E004	□E005	□E006			
If whole sample is comprised of splits, will the splits be homogenized prior to use: (note: if split, assign A, B, Cto sample numberadd Z if samples are homogenized.)											
Description of Sample: Dilution Waters				tact Cooling V ater/pump and		□Contact □Other:	Cooling Wate				
Location of Sampling: Receiving Waters				□Final-Pred	chlorinated		□Final-Chi □Other:	□Outfall Ou	itlet		
Sample type:	ample type: □Grab □Time Proportional			□24 Flour C		☐Hour Composite ☐Refrigerated/iced in Field					
Sample Collection:	liated: 25 oler chain-of	Date/Tings T /OUT) 1/2/ F-custody seal intact at sample retrieval:				eminated: 03 0900) (Nes IINo					
Volume of Sample: Liters / Gallons Container Type: FDA Grade Plastic Glass GStainless Steel											
Storage and Transport Conditions: Temp. (°C) upon collection: Description: Description:											
Religionship by sampler:	Date //2 //8	Time /235	Received By:	/T74 4	Vae.	4	Date //2//1/23	Time 1235			
Relinquished by:	luger	Pate /	Time	Received By:		<u> </u>		Date	Time		
Relinquished by:	Alinquished by: Date			Received By:				Date	Time		
Condition of Sample upor	Receipt:	Contained		Accepted		□Compro	mised / Explain below PReject			/ Explain belo	w
Sample Refrigerated (date/time/sig.):											
h-W-LO				Sample Da			1			· · · · · · · · · · · · · · · · · · ·	<u></u> .
temp (°C) pH D.O. (mg/L) Cond. TRC (ppm)			Dates used in Toxicity Test Date(s) Tin			Sample ne(s) Split ID		Sample Date		Terminated Time	
		8.0	1-21-0		12.1	5	Opin 10	1-22-	B	800	
1.6 1.0111		0.0			·						
						·		<u> </u>		<u> </u>	
Sample Manipulations:											
□Aerated/Due to:			□Supersati	uration	□D.O. < 40	0% of Sat. / 1	final D.O. afte	r aeration:	mg/L		
	□ Dechlorin	ated	mgs anhydrous sodium thiosulfate used per liter (show math on below)								



AQUATIC TOXICOLOGY LABORATORY CHAIN OF CUSTODY

Study Number:	14817	721		Facility No	ame or Cod	ie: 🎉	(n t	106			
Test Type:	E Acute		□ Chronic	□ Sediment			□Pure Co	mpound	Other		•
Sample Number*:	□D001	□D002	□D003	□ E001	□E002	₩E003	□E004	□E005	□E006		
If whole sample is comprised of splits, will the splits be homogenized prior to use: (note: If split, assign A, B, Cto sample numberadd Z If samples are homogenized.)											
Description of Sample:			Vaters		_	ct Cooling Water		ntact Cooling Water er:			
Location of Sampling: Final (pos) DFinal-Prechlorinated				DFinal-Ch	□Outfall Outlet		
Sample type:	ample type: ☐Grab ☐Time Proportion				DEFlow Pro	Composite portional					
Sample Collection:	tiated: 03 oler chain-o	Date OSV of-custody seal intact at sample retriev				eval: Types DNo					
Volume of Sample: Liters / Gallons Container Type: APDA Grade Plastic											
Storage and Transport Conditions: Temp. (°C) upon collection: 143 Storage and Transport Conditions: Temp. (°C) upon collection: 143 Overnight Courier 143 Overnig											
Relinquished by Sampler: Relinquished by:	Date / / / / / / / / / / / / / / / / / / /	Time Received By: 1220					Date Date Date	Time 122() Time			
Relinquished by:	Relinquished by: Date			Time	me Received By:					Time	
Condition of Sample upon Receipt: Accepted Compromised / Explain below Rejected / Explain below Sample Refrigerated (date/time/sig.):										/ Explain below	
Sample Data and Use											
temp (°C) pH	Initial Sample Data o (°C) pH D.O. (mg/L) Cond.		TRC (ppm) D		Dates used in Toxicity Test ate(s) Th		Sample Split ID		Sample Date		Terminated Time
1.4 7.09	12,1	9.45	0.0	1 40	13 13°				1.23.03		800
						<u> </u>					
Sample Manipulation	ns:	Saited				<u> </u>	·		<u></u>		
		□Aerated/	Due to:	□ Supersat	turation	□ D.O. < 40	0% of Sat. / f	inal D.O. afte	er aeration:	mg/L	
		□Dechloria	nated		mgs anhyd	rous sodium (thiosulfate us	sed per liter (s	show math or	n below)	



AQUATIC TOXICOLOGY LABORATORY CHAIN OF CUSTODY

Study Number:	1981	721		Facility Ne	ame or Cod	e: K	inbo				
Test Type:	☐Acute	ute Chr		Chronic		□Sediment		□Pure Compound			
Sample Number*:	□D001	□D002	□D003	□ E001	□E002	□E003	□E904	` © €005	□E006		
If whole sample is comprised of splits, will the splits be homogenized prior to use: (note: If split, assign A, B, Cto sample numberadd Z if samples are homogenized.)											
Description of Sample:				tact Cooling Water rater/pump and treat		□Contact Cooling Wate □Other:		T			
Location of Sampling: Grand (position) Grand (position)			st treatment)			hlorinated			orinated		□Outfall Outlet
Sample type:	ample type: DGrab			pportional □24 Hour Cor							
Sample Collection: Date/Tiple In U/22 Was sam		03	/のか f-custody s	eal intact a	t sample re	Date/Time T	ferminaled: 13 63 0900 15 400 IDNo				
Volume of Sample: 3/2 Liters / Gallons Container Type: DEDA Grade Plastic Gallons Steel											
Storage and Transport Conditions: /Piced/Cooler Temp. (°C) upon collection: /5 9 Field Collected/Transported to Lab ©Overnight Courier											
Religioushed by Sampler:	Date	Time	Received By:	- ·	1/1 4		Date	Time			
Relinquished by:			1/23/03 Ofate/	7245 Time	Received By:	<u>n_ (</u>	Delent		1- 23-8 Date	/245 Time	
Relinquished by:			Date	Time	Time Received By:				Date	Time	
Condition of Sample	Contained	i	Accepted	<u></u>	□ Compron	nised / Explai	n below	□Rejected /	Explain below		
Sample Refrigerated	(date/time/s	ig.):									
Sample Data and Use Initial Sample Data Dates used in Toxicity Test Sample Sample Sample Terminated											
temp (°C) pH	D.O. (mg/L)	Cond.	TRC (ppm)	Da	te(s)	n Toxicity Test Tin	ne(s)	Sample Split ID	Da	Sample I	erminated Time
12 (21	12.0	9.85	0.0	1-23					1.24.03		800
-			1780								
Sample Manipulations		<u> </u>		<u> </u>			L				
□Aerated			oue to:	□Supersati	uration	□ D.O. < 40)% of Sat. / fir	f Sat. / final D.O. after aeration:mg/L			
	□Dechiorin	Dechiorinated		mgs anhydrous sodium t			ed per liter (sl	now math on	below)		